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SIXTH

ANNUAL REPORT

—OF—

State Boiler Inspector

OF THE

STATE OF MONTANA

TO HIS EXCELLENCY:

JOHN E. RICKARDS

GOVERNOR OF MONTANA

YEAR ENDING NOVEMBER 30, 1894

HELENA, MONTANA
STATE PUBLISHING COMPANY
PRINTERS, BINDERS
1894

OFFICE OF STATE BOILER INSPECTOR,
HELENA, Montana, December 1, 1894

To HIS EXCELLENCY JOHN E. RICKARDS,
Governor of Montana.

SIR:—

In compliance with the requirements of the law, I have the honor to hand you a report of the State Boiler Inspector of the State of Montana, for the year ending November 30, 1894.

Respectfully submitted,

GEO. BLINN, Inspector.

STATE BOILER INSPECTOR'S OFFICE.

HELENA, MONT., Nov. 30th, 1894.

To His Excellency, the HONORABLE JOHN E. RICKARDS, *Governor of Montana:*

SIR: I have the honor herewith to submit the sixth annual report of the Boiler Inspector of Montana.

It is again a pleasure to have no explosions of boilers or their steam connections of the class brought under the provisions of the law to report during this year within the State of Montana.

A reading of the tabulated and detailed report following will show an increase in the work accomplished by the Inspectors, in the number of boilers inspected and a corresponding increase in the receipts of the office, which during the year just closed came within the sum of $1,519.05 of the total expenses of the office, including salaries, traveling and office expenses.

In the appropriation made for the boiler inspectors, the apportionment for traveling expenses fell short of the amount necessary to complete the work of the year, so that the inspectors have used from the fund for office expenses, in which there was a balance left of $239.80 the sum of $96.85. This item of expense will be found to increase each year, as the inspectors are required to cover more territory, and to accomplish the necessary work of the next two years the sum of $500 per year should be added to the $2,000 now provided for this branch of the service.

For the possible more effective attainment of the purposes of the present inspection law, I have the honor to recommend to your Excellency,s attention the following amendments, to-wit:

First. A provision giving the inspectors authority to administer the required oath to applicants for engineers' licenses.

As the law now stands applicants must go before a notary public. This works hardships and expense upon applicant engineers, who are often some distance from such an official, and yet must go before him before their application can go on file, and an appointment made with the inspector for examination.

It may be avoided in this manner with great satisfaction to the engineers of the state.

Second. Provisions should be made for the examination of and the granting of a special license to operators (not engineers) of low pressure heating plants in use in the State. This examination and special license to cover qualifications below the grade, even, of the third class engineer; provide for the care of this special class of steam plants only, for which this class of applicants may be found qualified.

In the discharge of their duties the inspectors have met with the most uniform courtesy upon the part of State officials, and the very hearty co-operation of the engineers in charge, the owners and managers of the steam plants throughout the State, which has greatly assisted them, and is here most respectfully acknowledged.

Very respectfully,
Your obedient servant,
GEORGE BLINN,
State Boiler Inspector.

INSPECTOR'S REPORT.

FINANCIAL.

Statement for the year ending November 30, 1894.

RECEIPTS.

To Inspector's Salary	$2,400 00	
Ass't Inspector's Salary	1,800 00	
Traveling expenses	2,000 00	
Office expenses	500 00	
		$6,700 00
29 Licenses, First Class	217 50	
61 " Second Class	305 00	
113 " Third Class	349 00	
14 Re-issues, First Class	105 00	
29 " Second Class	145 00	
32 " Third Class	96 00	
809 Renewals	809 00	
Cuts and rejections	66 50	
431 Boiler Inspections	2,945 00	5,038 00
Total		$11,738 00

DISBURSEMENTS.

By Inspector's Salary	$2,400 00	
Ass't Inspector's salary	1,800 00	
Traveling Expenses	2,096 85	
Office Expenses	130 70	
Office Rent	129 50	
		$6,557 05
Cash Turned Into State Treasury		5,038 00
Balance		142 95
Unexpended Appropriation Office Expenses	239 80	
Overdraft Traveling Expenses from This Fund	96 85	
Total		$11,738 00

BOILER INSPECTIONS.

	Number.
Visits made	613
Boilers examined	607
Boilers examined externally and internally	416
Boilers tested by hydrostatic pressure	413

In these visits and inspections 3,124 defects were noted, of which 164 were considered dangerous.

Eight boilers were condemned as unfit for further use.

Reference made to following table:

BOILER REPORT.

Nature of Defects.	No. Noted.	No. Dangerous
Cases of deposit of sediment	382	7
Cases of incrustation and scale	397	8
Cases of internal grooving and pitting	83	15
Cases of internal corrosion	144	10
Cases of external corrosion	86	1
Broken, loose and defective stays	45	12
Defective settings	69	3
Furnace out of shape	48	
Fractured Plates	4	4
Burned Plates	75	3
Blistered Plates	16	1
Defective Rivets	802	20
Defective Heads	21	7
Leaky Tubes	544	8
Leaky Seams	114	2
Water Guages Defective	68	10
Defective Blow Outs	21	4
Cases of deficiency or water	12	2
Safety valves overloaded	10	10
Safety valves defective	28	19
Defective Pressure Guages	147	11
Boilers without guages	8	8
Total	3,124	164

Number and Grade of Licenses Issued and to Whom.

Name	No.	Grade.	Name	No.	Grade.
Paul E. Rohm	1	1	Joseph Steckler	77	3
Thos. Riley	2	2	Samuel Fleming	77	3
R. P. Benjamin	3	2	Howard Stevens	78	3
Wm. T. Stodden	4	1	W. P. Evans	79	2
Chas. W. Beery	5	2	R. H. Lewis	80	3
W. H Perkins	6	2	Wm. J. Martin	81	1
Geo. H. Smith	7	2	E. H. Nash	82	1
Chas. Jackel	8	2	James E. Doud	86	2
Joseph H. Jones	9	2	Peter Rivers	83	3
Joseph Marcille	10	1	L. P. Hegman	85	3
J. Cunningham	11	1	C. A. Wilson	86	1
E. C. Ross	12	1	Frank A. Burns	87	1
J. M. Campbell	12	1	H. O. Stipe	88	1
Chas. Johnson	13	1	Thos. Mulholland	89	2
Wm. M. Montgomery	14	2	S. Anderson	90	2
Tip. Hundey	15	3	P. Goldsworthy	85	1
Chas. Hill	16	1	F. G. Davidson	86	2
Henry Wohlford	17	2	W. H. Mumbrue	87	1
Leon Dussault	18	2	F. F. McGuire	88	2
Mack Beach	19	2	J. P. Hensler	89	1
K. M. Reves	20	1	Angus Gillis	90	1
John Hanley	21	3	Stephen Titus	91	1
H. J. Gillispie	22	1	G. K. Turner	92	1
A. C. McLeod	23	1	F. La Forest	93	3
James O. Rutledge	24	1	E. Schuler	94	3
James McKenzie	25	2	Sam Baldwin	95	1
Edward Custer	26	3	F. G. Weber	96	2
Chas. T. Perry	27	3	Andrew Doyle	97	1
John Tounar	28	2	B. Jonasson	98	1
H. Ballon	29	1	John Morehead	99	3
J. B. Felts	30	1	John H. Bond	100	1
J. A. Singer	31	3	A. J. Wicks	101	1
Patrick Whelan	32	2	Mike Manley	102	2
Chas. Longmaid	33	1	C. R. Jenkins	103	1
Bert Johns	34	2	Wm. C. Stanley	104	1
W. D. Garr	35	1	John Weber	105	2
John F. Meade	36	2	J. H. Dailey	107	2
John Lynch	37	1	A. W. Mitchell	106	3
Andrew Thoen	38	2	H. S. Kline	108	3
Wm. J. Shaffer	39	3	W. P. Graham	110	3
T. R. Allen	40	3	Adolph L. Mauthey	112	1
Wm. H. Rodgers	41	1	Robert Benson	114	2
Alex. McKenzie	42	1	Daniel Shields	116	3
J. L. Churchill	43	1	Austin Schott	109	1
James Bounalie	44	1	J. C. Falkman	111	2
Carl Christofferson	45	2	T. C. Geis	113	3
A. E. Morcom	46	2	P. C. McNamar	115	2
R. T. Tretheway	47	2	G. P. Boynton	118	3
Wm. B. Bennett	48	2	W. H. Kelso	117	1
E. J. Dunn	49	2	G. F. Nelson	119	3
Frank J. Piper	50	2	John Horton	120	2
Wm. Darlington	51	1	John Marner	121	3
Chas. H. Decamp	52	1	Ole Moen	122	3
Evan P. Clark	53	3	A. H. Douglas	123	3
James H. Pew	60	2	R. H. Armstrong	124	3
Chas. O. Kelley	61	1	F. B. Bennett	126	1
James Dwyer	62	2	Geo. S. Congdon	127	1
R. A. Jones	63	1	J. F. Hooper	128	1
Samuel Price	64	3	J. F. Buchenan	129	2
J. T. High	65	1	John Kriser	130	2
Martin Lyth	66	1	W. Holling	131	2
K. Campbell	67	2	E. N. Bell	132	1
J. F. Case	68	2	Daniel Doonan	133	3
Henry Steffens	69	3	T. C. Martin	134	1
J. T. Brady	70	1	G. J. Metzger	135	1
W. J. Oswald	71	1	Wm. Hoskin	136	2
Lew Owens	54	1	Wm. Fezzy	136	2
W. Wiesmer	55	1	M. N. Jenney	137	2
N. Swanson	56	2	R. Brown	138	2
Oliver Smith	57	3	C. G. Olson	139	3
Wm. McKiernan	58	1	B. J. Shea	139	1
B. W. Johnson	59	1	T. N. Holman	140	2
M. F. Major	72	2	John Weart	141	2
J. N. Chapin	73	1	C. Silverthorn	142	2
W. E. Davey	74	2	Adam Dice	143	1
J. C. McNamar	75	1	Thos. Hunter	144	3
C. C. Whiting	76	2	M. C. Riley	145	1

Number and Grade of Licenses—Continued.

Name	No.	Grade.	Name	No.	Grade.
August Creer	146	1	John Dixon	230	1
Bryan Irvine	147	2	J. T. Ellis	231	2
C. A. Joyner	148	2	Wm. S. Van Osdel	232	2
Thos. Ogle	149	1	G. W. Baker	233	2
G. F. Waddell	150	1	C. S. Caird	234	1
John F. Nettle	151	3	Wm. O'Neil	235	2
August Schulz	152	3	John Weigand	236	1
Chas. Erickson	153	1	Geo. A. Shults	237	1
L. F. Venal	154	3	J. A. McLeod	238	3
Lewis Clergy	155	2	Charles E. Palmer	239	2
Joseph Bartzen	156	3	John Hillman	240	1
John Jonnson	157	1	Louis Welden	241	2
Henry Royles	158	1	Wm. H. Thomas	242	1
John F. Milan	163	3	John Duffy	243	1
D. A. Buchanan	164	2	John Kemp	244	3
Wm. Lauer	165	1	Wm. Woodcock	245	3
W. H. Sullivan	166	2	John C. Driscoll	246	2
Fred A. Porter	167	3	Wm. J. Rickell	248	1
John Ainsley	168	1	Wm. J. Kitto	249	3
J. M. McQuire	169	2	A. H. Todd	250	2
Bryan Owsley	170	1	Geo. G. Holmes	251	2
H. B. Corbett	171	2	W. R. Brown	252	1
C. O. Magill	172	2	Albert Alexander	253	3
W. R. Mealey	173	2	James C. Long	254	1
Fred Holland	174	1	Philip Davis	256	2
Albert Bachmann	175	2	C. G. Pearce	257	2
Sam M. Meadows	176	3	Chas. Hartwell	258	2
J. C. Bailey	177	3	Jerry Sullivan	259	3
Patrick McHugh	178	2	J. C. Fitzsimmons	260	3
M. Parker	179	1	James McGrath	261	3
Mike Savage	180	2	J. D. Blue	262	1
Thos. Trainer	181	2	James Colson	263	2
Louis A. Drago	182	1	Henry A Pence	264	2
Henry Williams	183	3	James Donavan	264	1
John Wands	184	3	C. W. Krinick	265	2
John Swan	185	1	Thos. A. Doyle	266	2
Harry J. Williams	186	1	Thos. Scallon	267	3
James Greig	187	2	Wm. T. Henry	268	2
August Kirby	188	3	J. E. Watson	269	1
J. H. Youlton	189	2	Herbert Witherill	247	1
J. T. Tucker	190	3	Hamilton Reid	270	2
John H. Bryden	191	2	Wm. Joy	271	1
Ben Donne	192	1	Frank Thompson	272	2
John Fea	193	1	N. T. Tregear	273	3
E. S. Wells	194	1	F. M. Tibbetts	275	1
Robert Leggatt	195	1	Chas. Benoit	276	2
Geo. Errett	196	2	John Coleman	277	2
David Stoner	197	1	Albert Lisenger	278	1
Wm. H. Hosken	198	1	Frank D. Smith	280	2
J. Lalande	199	3	J. P. Newberry	281	2
Hugh Tully	200	3	R. W. Wing	282	1
Stephen H. Kelley	201	2	B. F. Cliff	283	2
E. H. Thomas	202	3	Richard Trahair	284	3
J. N. Edgar	203	1	Samuel Peterson	285	3
Frank Wallace	204	1	Milo O. West	286	2
John T. Nagle	205	1	H. F. Edwards	287	1
Fred Thurston	206	3	Wm. H. Thomas	288	1
Thomas Trainor	207	1	F. Chouinard	289	1
Sam T. Penrod	209	2	R. H. Boehm	290	2
P. S. Wilson	210	1	Wm. A. McLean	291	2
J. J. McNerney	211	1	John F. Ferris	292	2
Evan Beynon	212	1	Fred Kauf, Jr	293	3
John A. Stewart	214	3	C. A. Larson	296	2
G. A. Day	215	3	Edward Kane	297	3
James Fox	216	3	C. F. Bronner	298	3
Joseph Rourke	217	2	Chas. Fairbanks	299	2
W. J. Jemison	218	1	Theo. Hawallek	300	1
R. C. McTaul	219	3	Daniel O'Connell	302	1
T. M. Lund	220	2	Eugene Courtney	303	1
Chas. T. Wiedman	221	1	Chas. Lybrook	301	3
Wm. Russell	222	3	E. R. Chase	304	1
A. B. Rosman	223	1	Albert Peterson	305	3
F. E. Hawksworth	224	1	C. A. Shelledy	306	3
J. F. Newbould	225	3	Chas. McAuliff	307	1
E. S. Gile	226	2	Castle D. Davis	308	2
W. F. Mosburg	227	2	W. A. Greenwalt	309	2
John L. Weedeman	228	3	J. W. Carter	310	2

Number and Grade of Licenses—Continued.

Name	No.	Grade.	Name	No.	Grade.
R. S. Kelley	311	3	L. A. Eller	392	2
John M. White	312	1	J. B. Weaver	393	1
John H. Vogel	313	2	Hugh Ray	394	3
James McManus	314	1	Chas. W. Collins	395	1
H. A. Lisher	315	3	John Lesage	396	1
Frank French	316	3	T. W. Spaulding	397	3
John R. Thomas	317	1	August Peterson	398	3
B. E. Brownson	318	1	Victor Huffman	399	1
Nestor Broullet	319	1	F. S. Weed	400	2
Chas. McGee	320	1	R. W. Noble	401	1
S. M. Lees	321	1	Joseph Smith	402	3
J. W. James	322	3	John A. Eklund	403	2
Philip Houl	333	2	G. J. Ammonson	404	3
C. E. Avery	334	2	M. C. Ryan	405	2
Frank J. Hudson	322	1	Dan G. Ross	406	1
John E. Astle	324	3	A. B. Clark	407	3
Andrew Palmquest	323	2	Albert H. Doud	408	2
Joseph Jilbert	325	2	Ben Plumber	409	1
J. M. McKinney	326	1	Frank J. Bennett	410	2
May Wright	327	1	W. N. Mason	411	2
Dan McDonald	328	1	J. Zurlander	413	1
W. D. Clark	335	2	C. B. Joslin	414	3
Wm. S. Birkett	336	1	Josiah Bennett	415	1
Wm. B. Lyons	337	2	Frank Blodget	416	2
Sam Punches	338	1	M. J. Nettle	417	1
Edward Doyle	339	2	D. N. Carley	418	2
Samuel Stevens	340	2	Albert Minger	419	1
H. J. Lutz	341	1	J. B. Montgomery	420	2
J. M. Finnegan	342	2	J. H. Williams	421	1
Peter C. Keenan	343	1	J. M. Stephens	422	1
Stephen Longtain	344	1	William Clayton	423	2
D. J. Sullivan	345	3	Chas. Wilson	424	2
Malcolm Gillis	346	1	H. G. Newton	425	2
J. P. Dyarneth	347	1	Charles Wells	426	3
B. C. Rogers	348	3	Thos. Noble	427	1
B. T. Wilderson	349	1	Charles Williams	430	3
Anthony Lubke	350	1	Patrick Clark	431	3
John T. Pogson	350	2	R. H. Stile	433	2
E. H. Metcalf	351	1	J. G. Alinquist	435	2
John Bond	352	2	Wm. L. Hugo	437	1
H. E. Sims	353	1	Morgan Davis	439	1
Harry Pitts	354	1	Thomas Walton	432	2
John Sullivan	355	3	Wm. C. Haggin	427	3
R. T. Francis	356	3	Wm. Jefferson	426	2
J. O. Shamberger	357	1	John Halverson	425	2
M. J. Legg	358	1	Chas. W. Drake	434	2
C. F. Hanson	359	1	Henry Rockinger	436	2
John B. Kaiser	360	2	P. H. Montague	438	3
F. Bourne	362	2	T. P. Smith	440	1
Thos. C. Williams	363	2	Wm. Woolsey, Jr	442	2
J. A. Blakely	364	1	R. P. Kelley	444	1
A. A. Sandahl	365	3	Jos. G. Hoar	441	1
Robt. Bolman	366	1	Joseph Corby	443	1
David Noble	367	3	M. Arnold	445	1
Wm. Osten	368	3	J. J. McDonald	446	2
H. G. Smock	369	2	Wm. Jansen	447	1
A. C. Hokanson	370	2	Thos. Green	448	2
Robert J. Ennis	371	1	J. R. Frazer	449	3
A. McKelvey	372	2	C. E. Gray	450	3
M. Bullen	373	2	Geo. Boerke	451	3
Richard Williams	374	1	James Bowie	452	2
Geo. Arps	375	2	John Uhl	453	3
A. Fitzgerald	376	2	James Nimmo	454	2
T. J. Warren	377	3	John Weigenstein	455	1
M. C. Mattison	378	1	Joseph Norris	456	1
Chas. Wyman	379	1	J. R. Morris n	457	1
Philip Parcell	380	3	C. A. Jackson	459	1
James C. Boyd	381	1	Dan Forringer	460	1
John Tregoning	383	2	Daniel O'Grady	461	1
J. W. Graves	384	2	W. S. Bates	462	2
Thos. Thew	385	1	Geo. Blinn	463	1
J. Wilkinson	386	3	Patrick Walsh	464	3
R. Jargenson	387	2	E. Stowman	465	2
Jerry Cumbo	388	2	Jonathan Sewell	466	1
Peter Olson	389	3	J. B. Chappelear	467	2
Albert Eitel	390	3	Edward Cabbage	468	1
Robt. Carlston	391	1	Henry Tappin	469	2

Number and Grade of Licenses—Continued.

Name	No.	Grade.	Name	No.	Grade.
J. J. Miller	470	1	Andrew Brennan	570	1
C. J. Wood	471	1	Robt. Ray, Sr	570	1
A. Cavanaugh	472	2	Chas. Johnson	572	3
H. A. Van Voorhees	473	2	Thos. Littlejohn	572	2
A. J. Davis	474	1	Nels. Nelson	570	3
W. G. Pace	475	1	P. F. Doherty	574	3
John Wellington	476	1	John Mohs	575	3
J. E. Briney	477	1	John Clifford	576	3
A. C. McDonald	478	3	John Burrell	578	3
John Johnson	479	3	G. W. Smith	580	2
Thos. Williams	480	1	James Dowan	582	3
Geo. Oswald	481	1	Wm. Smith	584	3
Aug. Schneider	483	3	P. H. Hawkins	586	3
James Peterson	484	1	Thos. S. Enderson	588	3
Chas. Warner	485	2	R. W. Shand	590	2
J. C. Sincel	486	2	Joseph Sterling	592	3
C. A. Lindsay	487	1	Jerome Morris	594	3
Valentine Zuber	488	3	Wm. E. Heron	596	3
J. R. Richardson	489	1	Chas. Brayton	5 8	3
D. T. Kelley	490	3	Thos. Barr	600	3
F. D. McCabe	491	2	Chas. H. Russell	602	3
Wm. H. Edgecombe	492	2	August Rothman	521	2
Edward Adami	493	1	John Copeland	523	1
Fred Wood	494	2	Wm. M. Bennett	525	3
Patrick McFall	495	3	L. Hunsberger	527	3
James A. McQuaig	496	3	Robert Black	529	2
J. A. Gilbert	497	2	Peter Rivers	531	3
Jerry M. Sullivan	498	1	S. C. Ayers	606	1
John C. Spencer	499	1	Frank Drew	608	1
R. T. Julien	500	3	Wm. D. Mulloy	610	1
Geo. Luci	445	3	James A. Piper	612	3
Fred Mead	501	3	Wm. E. Mummy	614	2
Peter Betez	502	2	A. J. Mummy	616	2
A. R. Glenn	503	2	Josephus Clark	618	1
James Kelley	504	3	John Tosdeff	620	1
W. H. Edick	505	3	John J Range	622	1
G. B. Roland	506	1	M. J. McCabe	624	1
J. E. Eckstrom	507	1	J. B. Gates	626	1
D. J. Lenehan	508	3	Max Gurtesen	628	2
Frederick Thomas	509	2	A. J. Rohday	630	1
Wm. Dale	510	1	R. L. Folkins	632	1
D. E. Liddle	511	2	W. L. Hawley	634	1
J. G. Hilger	512	2	John E. Parrish	636	1
H. E. Siderfin	513	1	G. W. A. Bond	638	1
Chas. Stehl	514	3	J. C. Legraff	640	1
Richard Diamond	515	1	Jahn J. Lyons	642	3
Chas. Ritner	516	2	David Goodwin	644	2
D. E. Jones	517	2	T. J. Gamache	646	2
Henry Jones	518	3	Wm. C. Lowrie	648	2
Thos. Merrigan	545	2	Fred C. Bowen	650	1
Otto Schmidt	519	1	Geo. Ross	652	3
John Wraith	520	1	W. J. Jameson	654	2
Daniel Hungate	521	3	J. B. Winters	656	2
M. F. Ruggles	522	1	Wm. Tyack	658	1
Geo. Furlong	524	1	J. J. Smith	660	1
Chas. Tjungberg	526	2	W. G. Jones	662	3
Wm. Watters	528	2	Thos. Neal	664	3
Wm. Jones	530	1	John Peters	666	1
D. J. Hartnell	532	1	J. S. Walthey	668	1
Frank H. Begbie	534	1	John Kiley	670	1
Fred T. Davis	536	2	A. J. Longstaff	672	3
Ellis Hale	538	1	J. J Botter	674	2
C. W. Osborn	540	1	T. J. Warren	676	1
H. J. Kerr	542	2	W. E. Merritt	678	1
Robt. C. Tait	544	3	J. H. Welhite	680	3
A. H. Andrews	546	1	J. G. Richardson	682	2
Alison C. Fisher	548	2	John Muir	684	1
Alex Meagher	550	2	Adolph Molstead	533	2
S. D. Metier	552	2	Joseph Tucker	535	2
E. J. Hoadley	554	1	John O. Carson	537	2
Wm. H. Reed	556	1	Jerry Riley	539	2
J. W. Allen	558	3	E. F. Tarnham	541	1
Geo. M. Ullrick	560	3	F. J. McCormick	545	2
Wm. Schneider	562	2	Thos. O'Brien	547	3
D. W. Selfridge	564	1	T. J. Noble	549	1
W. J Bullock	566	1	Wm. Rodda	551	1
J. P. Young	568	1	John Green	553	2

Number and Grade of Licenses—Continued.

Name	No.	Grade.	Name	No.	Grade.
J. C. Sullivan	555	2	T. H. Smith	692	3
W. A. Corbly	557	2	Richard Bowden	694	1
John P. Tisher	559	2	Sam W. Swift	696	2
W. H. Swett	563	1	John Goard	700	3
Chas. O. Hogan	565	2	F. Ruther	702	3
Edward Jones	567	2	C. P. Lorenz	704	2
Geo. W. Clapper	569	3	G. E. Wraith	706	3
John Kane	571	2	Geo. P. Sterling	708	1
C. S. Cranston	573	2	Peter Martin	710	2
Robt. Ray, Jr	575	3	E. W. Thomas	712	1
John Hewitt	576	1	Robt. Yeamon	714	3
Wm. K. Seward	575	3	Albert Alexander	716	2
C. T. Hafner	577	1	Marvin Deal	718	3
John T. Backus	579	2	Peter McIntyer	720	2
John R. Lewis	581	1	Matthew Nettle	722	3
Archie Gillis	583	1	John Hunter	724	1
Quinlin O'Leary	585	3	Wm. G. Watson	726	2
J. A. Beardsley	587	2	Geo. E. Jones	728	2
James McAvoy	589	3	Thomas Smith	687	3
Dan McAuliffe	591	1	A. H. McDonald	689	1
James McNichols	593	1	Eugene Pence	691	3
Ben F. Oscutt	595	1	Dennis Sullivan	693	2
Chas. P. Laidlow	597	1	John Grant	695	1
Lonis Peterson	599	2	John McIntosh	697	3
Frank Carney	601	2	Steve Parker	699	1
John Fitzgerald	603	2	John Mills	701	1
B. W. Clark	605	1	Wm. H. Albright	703	3
N. Burkard	607	1	R. W. Eams	705	1
E. E. Williams	609	1	Wm. Bott	707	1
John Morley	611	1	N. A. Hall	709	1
Andrew Quilty	613	3	H. M. Reeves	711	1
Geo. M. Allen	615	1	Geo. Yates	713	2
Wm. Thompson	617	1	H. H. Kannard	715	2
Frank Bailey	615	1	J. G. Korb	730	3
Thos. Co nelly	617	2	James Sheridan	732	2
Joseph Heslop	619	1	John E. Jackson	729	3
Chas. Bowman	621	3	C. W. Harris	731	2
Peter Johnson	623	2	Albert Sandy	733	1
W. J. Bennett	627	3	Albert Fluhman	734	2
B. F. Mendenhall	629	2	J. C. Wells	735	2
P. S. Brennan	631	3	John Hamilton	736	1
Thos. Reynolds	633	2	R. C. Dimond	737	1
M. W. Doyle	635	2	J J. Linman	738	3
Grflith Jones	637	3	James Cleary	717	1
F. H. Muir	625	3	Edward Ducie	719	3
A. J. Steele	639	2	Thos. Shea	721	3
John Ray	641	2	James Colson	723	3
Louis Decco	643	3	Peter Stevens	725	1
Joseph Gray	645	1	E. C. Wilson	727	3
Geo. Northev	647	1	R. F. Fox	738	1
Otto G. Rundberg	649	2	Frank Trainor	739	1
Henry P. Morgan	651	2	H. M. Likenberg	740	2
Peter Green	653	1	F. W. Thornhill	742	2
Andrew Bye	655	2	N. B. Nason	744	1
Thos. W. Howell	657	1	P. D. Sullivan	746	2
Thos. Winwood	659	1	T. H. Brisbin	748	3
Erick Erickson	661	2	DeWitt Wagner	750	3
Wm. Gray	663	1	P. M. Humphrey	752	3
Thos. Brophy	665	1	Walter Stuart	754	1
John Bloxham	667	1	John Parker	756	3
Wm. G. Marks	669	1	J. T. Forkelson	741	2
Abe Winwood	671	1	Henry Lindlahr	745	3
Frank Cole	673	1	Evert E. Labarr	743	3
Frank A. Quinn	675	2	Edward Price	747	3
J. H. Thomas	677	2	Lucius H Grover	749	2
John McNamara	679	2	D. A. McGregor	751	2
Thos. Harris	681	2	Martin Zeller	753	2
E. J. Pascoe	683	3	J. R. Lingo	755	3
F. H. Norris	685	2	Homer Sheldon	757	2
J. R. Dutton	686	1	Geo. W. King	759	2
J. A. Lantheanme	688	2	W. P. McMannamy	761	3
Geo. T. Dixon	690	3	John B. Lindsey	752	1

Number and Grade of Licenses—Continued.

Name	No.	Grade.	Name	No.	Grade.
Z. C. Pringey	754	2	Geo. W. Westby	825	3
Wm. H. Nolan	756	1	W. O. Reese	827	2
Geo. O'Grady	758	2	Thos. Travis	829	1
D. E. Mandville	760	1	Alex Muir	831	2
Edward Bailey	762	1	John K. Nelson	833	3
A. T. Harris	764	2	James Taylor	835	1
J. F. Williams	766	3	C. Mibergall	837	3
Peter A. Clark	768	1	E. L. Davis	839	1
Albert Grupp	770	1	J. Beauchamp	841	1
C. E. Rathbun	772	1	D. N. Dilabough	843	1
W. R. Cox	774	1	Frank J. Higgins	845	2
John Wasley	776	2	H. L. Ferguson	847	3
August Newitz	778	3	Roy Wells	849	2
Fred Maddick	780	1	Wm. E. Headley	851	1
E. M. Gunville	782	1	Jerry Carter	853	2
J. C. Dawson	784	1	Oscar Bell	855	2
T. Hollingsworth	786	2	Joseph Goff	857	3
M. J. Whalin	788	2	Albert Bein	859	2
Henry Taylor	790	1	Robert N. Cowan	861	1
Thos. Copeley	792	3	R. D. McLane	863	1
Wm. F. Hollinsworth	794	1	J. S. Thornton	867	1
Daniel Jennings	798	2	Geo. Cullum	869	1
V. J. McKinnon	800	1	Geo. Curtis	871	1
Jas. J. Lyons	802	1	M. Deering	873	1
Joseph Rossiter	804	1	T. E. Thomas	875	1
V. M. Tricks	806	2	Sam Bishop	877	1
Chas. Lanz	808	3	G. Edwardson	879	1
W. H. Thomas	810	1	Philip Fee	881	3
Gus Dahlburg	812	3	Robert Nesbit	883	1
F. H. Hutchinson	814	3	C. C. Mitchell	885	1
A. F. McCune	816	2	J. W. Duncan	887	1
Henry Green	818	2	A. Klosowsky	889	2
Edwin Suiter	820	1	Alex Gillanders	891	1
Florence Sullivan	822	2	Pat Comba	893	1
John Holland	824	1	G. A. Redding	895	3
Henry Hodge	826	1	Lewis Odman	897	2
S. F. Whitney	828	1	Pat McGinty	899	3
R. P. Kyle	830	1	A. W. Church	901	3
P. S. Johnston	832	2	B. Ullman	903	1
Geo. W. Powrie	834	1	H. G. Potter	905	3
R. I. Sullivan	836	2	J. J. Howley	907	1
James McCurry	838	2	Wm. F. Nye	909	2
W. A. Rockliff	761	1	Thos. Porter	911	3
James Cocking	763	3	Oliver Stingley	915	1
E. D. Conger	765	2	S. C. Hanson	917	2
Geo. Green	767	1	G. H. Savage	919	2
Geo. L. Meeker	769	3	A. Nightlinger	921	2
Owen Tirney	771	1	John D. Balmat	923	3
H. W. Dunleavy	773	3	O. Williams	927	3
F. R. McMasters	775	3	R. Osborne	929	1
Ira D. Shope	777	3	Wm. H. Johns	931	3
M. C. Rowe	779	2	John Sewell	933	2
James McDonald	781	1	John T. Carlson	935	2
Chas. Morton	785	2	S. R. Jensen	937	3
T. F. Hope	787	3	Robt. Benson	939	2
J. J. Barrett	789	1	B. M. Lindsay	941	1
John L. Law	791	1	M. P. Baugh	943	2
Eph Oleson	793	3	M. C. Warren	945	1
Wm. W. Johnson	795	1	J. L. Tucker	947	2
Roy C. Rogers	797	3	Geo. W. Arthur	949	1
Mike Curry	799	3	D. A. Thetge	840	1
C. E. Davidson	801	2	M. Gibney	842	3
Wesley Woten	803	1	Mannus Kane	844	3
J. A. McPhail	807	2	Wm. Gregory	846	2
John Becker	805	3	K. Peterson	848	3
John Sullivan	809	3	W. W. Higgins	850	1
J. T. Cunningham	811	1	C. W. Walker	852	2
E. P. Carroll	813	1	J. R. Stipe	854	1
Robt. Ireton	815	2	Evan Evans	856	1
Dan B. Steele	817	3	C. B. Wickham	858	1
Joseph S. Robbins	819	1	C. H. Bucher	860	1
M. W. Creveling	823	1	F. A. Lake	862	1

Number and Grade of Licenses—Continued.

Name	No.	Grade.	Name	No	Grade.
E. K. Frost	864	3	H. S. Coleman	998	1
E. D. Barthrow	866	1	David Fish	1,000	3
C. G. Osborne	868	1	Wm. Holland	1,002	2
G. E. Wagar	870	2	J. F. Sohl	1,004	2
R. Nand	872	2	A. C. Dilley	1,006	2
James P. Sullivan	874	3	Alfred J. Jose	1,008	1
A. J. Grunnell	876	2	J. J. McGrath	1,010	3
E. W. L. Peets	878	2	C. G. Fox	1,012	2
C. F. McKinnon	880	2	Patrick Sullivan	1,014	1
S. W. Currier	882	3	Charles O. Kelley	1,016	1
J. W. Masterson	884	1	Wm. Shields	1,018	1
T. F. Behan	886	1	Andrew McMillan	1 020	1
D. E. Parry	888	2	D. A. Noble	1,022	1
J. W. Cook	890	1	Albert Geiman	1,024	1
Peter Boyle	892	2	M. C. Murphy	1,026	2
N. E. Stone	894	1	Alfred Lamson	1,028	1
James O'Rourk	896	2	F. L. Johnson	1,030	1
Geo. Nicholson	898	2	John Cunningham	1.032	1
F. J. Flanagan	898	2	Walter Brown	993	3
M. Gregor	904	1	C. M. Miller	995	2
Wm. N. Pinkston	900	3	Henry Joby	997	3
Wm. Ettridge	902	3	Geo. Cropley	1,005	3
H. N. Merwin	906	1	R. B. Swett	1,001	3
Wm. B. Bedding	908	2	T. J. Ganter	999	1
M. V. Shay	910	1	Martin Messener	951	2
John McDonald	912	1	C. C. Garxey	983	3
R. H. Dodds	914	2	A. L. Thorn	1,003	1
H. H. Whipple	916	1	G. H. Flosses	1,034	2
H. Harriman	918	2	W. J. Darlington	1,038	1
H. Goecke	920	3	J. A. Singer	1,036	2
J. J. Layton	922	1	Jule George	1,040	3
Richard Evans	924	1	D. B. Moore	1,042	3
N. J. Butterman	926	2	Henry Eade	1,044	3
R. C. Lehman	928	2	Ed Colson	1,046	1
A. S. Dorman	930	3	Thos. Wilson	1,048	1
Gus Shoburg	932	2	Joseph Petty	1,050	1
Mike Murray	934	2	D. K. Sullivan	1,052	1
John O. Conle	936	1	Wm. J. Timmins	1,054	2
Dennis Holleran	938	3	W. T. Stodden	1,056	1
M. C. Clancey	940	3	C. T. Hafner	1,058	2
W. H. Trobridge	942	3	G. Middleton	1,007	3
R. I. Trask	944	3	J. E. Turner	1,009	2
J. H. Bohling	946	3	G. W. Vernon	1,011	1
Frank K. Aken	948	3	J. W. Ross	1,013	2
F. C. Seaman	950	3	W. F. Jamieson	997	3
W. C. Goodwin	952	2	Henry Andrak	1,015	1
H. F. Warner	987	2	E. L. Metcalf	1,017	3
L. W. Styers	954	3	F. Klepinger	1,019	2
Seth Jackson	956	2	H. A. Burrell	1,021	2
J. Hunneault	958	1	A. Boomer	1,066	2
O. A. Olin	960	1	Chas. Johnson	1,023	1
Wm. G. Rule	962	1	H. D. Beggs	1,025	3
Joseph Rosse	964	3	F. W. Thornhill	1,027	1
Wm. McCloskey	966	1	John Cumbo	1,029	1
C. Kammerer	968	1	John Mamer	1,031	3
A. Noble	970	2	W. E. Barger	1,033	2
G. D. Weaver	972	2	Oscar Else	1,035	3
Chas. E. Powell	974	3	H. S. Joyner	1,037	1
John Dodds	976	3	R. C. Perkins	1,039	3
Geo. Ullrich	978	3	R. P. Benjomine	1,041	2
David D. Yates	980	1	Chas. D. Evans	1,043	2
J. P. Campbell	982	2	S. B. Forster	1,045	2
F. C. S. Hillhouse	984	2	Chas. Jackel	1,047	2
A. J. Nash	986	2	J. N. Rusche	1,049	2
J. L. Garwood	988	1	P. Gardner	1,051	2
L. F. Forest	990	2	Andrew Thorn	1,053	2
J. P. Collins	992	1	Joseph Parken	1,055	1
E. M. Alderman	994	1	John L. Larson	1,057	3
H. P. Landon	996	1	W. M. Pennington	1,059	3

Number and Grade of Licenses—Concluded.

Name	No.	Grade.	Name	No.	Grade.
Thos. Reynolds	1,059	1	Thos. Clark	1,'74	1
Thos. Riley	1,061	2	Geo. Eldridge	953	2
E. Standiford	1,063	1	A. G. Redding	854	1
David W. Milner	1,065	3	E. M. Ellison	955	2
Thos. Ackerman	1,078	2	W. H. Layton	957	3
Harry Strong	1,080	3	James Hines	959	1
R. A. Jone	1,067	1	Wm. Cahill	961	2
Wm. H Perkins	1,069	2	W. H. Noll	963	2
J. A. McKenzie	1,071	1	H. A. Hathaway	965	1
Martin Dee	1,073	1	John E. Ryan	989	1
G. J. Opperman	1,082	2	H. E. Williams	967	2
E. H. Neeley	1,075	3	P. S. Burton	971	2
James Newman	1,077	2	Wm. Scott	969	3
John Reisir	1,079	2	H. Johnson	973	2
S. Anderson	1,076	1	Ed Albert	975	3
G. N. Mansfield	1,064	3	J. E. Mitchell	977	2
Perry Stiffie	1,066	2	J. J. Dowling	973	3
Louis Olson	1,068	3	Wm. Eppert	975	2
P. C. McNamara	1,060	2	Aug. Whitman	991	3
J. C. McNamara	1,062	1	Chas. Thompson	979	1
Sam Price	1,070	3	S. McConnell	981	2
Geo. J. Rogers	1,072	1	J. W. Word	985	3